TEJUS
CONSULTANTS

No.TC/BBMP/YNK-PMC/487/20-21

Date: 11.08.2021

To
The Executive Engineer
Yelahanka Division
NH-7 Road, Bangalore – 560 092

Dear Sir

Sub: : Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.

In reference to the above subject, this is to bring to your kind notice that we have scrutinized the **First and Part bill** submitted by **M/s A.G Narayanaswamy** towards the above said work and arrived at an amount of 3,16,93,104.00 **(Rupees Three Crore Sixteen Lakhs Ninety-Three Thousand One Hundred and Four Only)** the work has been completed satisfactorily.

This is for your kind information.

Thank you and assuring you the best of our Services at all the times

For Tejus Consultants
(Nischal M)

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

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TEJUS
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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	PCC
Sample Location	Srinivasa Garden Layout	**Date of Sampling**	04-06-2021
		Date of Testing	05-06-2021

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	76	76	2.53	97.47	95-100
20.00mm	1377	1453	48.43	51.57	30-70
10.00mm	966	2419	80.63	19.37	10-35
4.75mm	476	2895	96.50	3.50	0-5
Pan	105	3000	100.00	0.00	

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	PCC
Location/Source	Srinivasa Garden Layout	Date of Sampling	04-06-2021
Period of Soaking	24 hours	Date of Testing	05-06-2021

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		651	638	647	
B	Weight of oven - dry sample gm.		643	630	639	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1684	1676	1681	
E	Bulk specific gravity	B / (C + A - D)	2.657	2.658	2.651	**2.656**
G	Absorption (%)	(A - B) *100 / B	1.244	1.270	1.252	**1.255**

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Sri. Sundaresh Ae
Assl. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Test Report on Cement

Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.A G. Narayana Swamy.
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	05-06-2021
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	105 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	464 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

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Asst. Executive Engineer
BBMP Bangalore

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TEJUS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Consultants	Tejus Consultants, Bangalore
Contractor	Sri.A G. Narayana Swamy.

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	M sand	Proposed Use	PCC
Sample Location	Srinivasa Garden Layout	Date of Sampling	05-06-2021
		Date of Testing	05-06-2021

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	220	220	7.33	92.67	90 - 100
2.36 mm	315	535	17.83	82.17	75 - 100
1.18 mm	420	955	31.83	68.17	55 - 90
0.600 mm	488	1443	48.10	51.90	35 -59
0.300 mm	748	2191	73.03	26.97	8-30
0.150 mm	620	2811	93.70	6.30	0 - 10
Pan	189	3000			-

Remarks : Satisfactory / Not Satisfactory

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Asst. Executive Engineer
BBMP Division
Bangalore Zone - 02

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Test Report on Cement

Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.A G. Narayana Swamy.
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	08-06-2021
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	107Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	493Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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Asst. Executive Engineer
Project Division
Yelahanka Zone-2
Bangalore-2

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Consultants	TEJUS CONSULTANTS
Contractor	Sri.A G. Narayana Swamy.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**	**Proposed Use**	CONCRETE
Sample Location	At Plant	**Date of Sampling**	08-06-2021
		Date of Testing	09-06-2021

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	526	526	5.26	94.74	90-100
10.0	4562	5088	50.88	49.12	40-85
4.75	4288	9376	93.76	6.24	0-10
Pan	624	10000			

Remarks : Satisfactory / Not Satisfactory

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Asst. Executive Engineer
Project Division
Yelahanka, Bangalore-92
BBMP, Bangalore

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	Sri.A G. Narayana Swamy.				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	At Plant	**Date of Sampling**	08-06-2021
		Date of Testing	09-06-2021

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	269	269	2.69	97.31	95 - 100
10.00 mm	4765	5034	50.34	49.66	25 - 55
4.75 mm	4298	9332	93.32	6.68	0 - 10
Pan	668	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Bystarayanapura Constituency.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A.G. Narayana Swamy.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	concrete
Location/Source	At Plant	Date of Sampling	08-06-2021
Period of Soaking	24 hours	Date of Testing	09-06-2021

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		667	644	652	
B	Weight of oven dry sample gm.		660	635	642	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1934	1680	1686	
E	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.861	2.857	2.852	2.857
G	Absorption (%)	$\frac{(A-B)*100}{B}$	1.061	1.417	1.713	1.397

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Consultants	Tejus Consultants, Bangalore
Contractor	Sri.A G. Narayana Swamy.

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	**M sand**	**Proposed Use**	concrete
Sample Location	At Plant	**Date of Sampling**	09-06-2021
		Date of Testing	09-06-2021

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	216	216	7.20	92.80	90 - 100
2.36 mm	319	535	17.83	82.17	75 - 100
1.18 mm	445	980	32.67	67.33	55 - 90
0.600 mm	492	1472	49.07	50.93	35 -59
0.300 mm	712	2184	72.80	27.20	8-30
0.150 mm	628	2812	93.73	6.27	0 - 10
Pan	188	3000			-

Remarks : Satisfactory / Not Satisfactory

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Test Report on Compressive strength of Solid Block

Project	Developmental works to be undertaken in Ward No.08 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagalur and Kempegowdanapura Quarrieswara.
Client	Brahat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.A G. Narayana Swamy.
Cross sectional area	80000mm2
Size of cube	400mm x 150mm x 200mm
No. of Block Tested	3
Reference IS code:	IS:2185 (Part 1)- 2008

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	10-06-2021	11-06-2021	80000	331.00	4.39	4.29	3.00
2	10-06-2021	11-06-2021	80000	340.00	4.25		
3	10-06-2021	11-06-2021	80000	338.00	4.23		

Asst. Executive Engineer
Project Implementation Unit-08
BBMP, Yelahanka

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.A G. Narayana Swamy.
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Ch:95 LHS Srinivasa Garden Layout 1st MainRoad (For Raft)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	10-06-2021	17-06-2021	7 days	8.155	22500	319	14.18	13.99
2	10-06-2021	17-06-2021	7 days	8.164	22500	314	13.96	
3	10-06-2021	17-06-2021	7 days	8.195	22500	311	13.82	

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Project Division
Yelahanka Zone
BBMP Bangalore-92

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.A G. Narayana Swamy.
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Ch:95 LHS Srinivasa Garden Layout 1st MainRoad (For Raft)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	10-06-2021	08-07-2021	28 days	8.158	22500	501	22.27	22.21
2	10-06-2021	08-07-2021	28 days	8.169	22500	500	22.22	
3	10-06-2021	08-07-2021	28 days	8.175	22500	498	22.13	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.A G. Narayana Swamy.
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Ch:110 RHS Srinivasa Garden Layout 1st MainRoad (For Raft)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	11-06-2021	18-06-2021	7 days	8.155	22500	311	13.82	13.90
2	11-06-2021	18-06-2021	7 days	8.164	22500	315	14.00	
3	11-06-2021	18-06-2021	7 days	8.195	22500	312	13.87	

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Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.A G. Narayana Swamy.
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Ch:110 RHS Srinivasa Garden Layout 1st MainRoad (For Raft)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	11-06-2021	09-07-2021	28 days	8.158	22500	510	22.67	22.55
2	11-06-2021	09-07-2021	28 days	8.169	22500	504	22.40	
3	11-06-2021	09-07-2021	28 days	8.175	22500	508	22.58	

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TEJUS

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Name of Work	:	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	Sri.A G. Narayana Swamy.
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Date of Testing	:	11-06-2021
Techinical Reference	:	IS 1786:2008, IS1608:2005, IS1599:1985(Reaffirmed2006)
Sample Identification	:	8mm, 10mm, 12mm.TMT Fe500 Bars

Sl. No.	**Nominal size dia in mm)**	**Mass per metre (kg/m)**	**TENSILE STRENGTH**		
			0.20% proof stress/yield stress N/mm2	**Tensile strength N/mm2 ' **	**Elongation,percent on gauge length**
1	8	0.397	522	577	15
2	10	0.620	535	583	16
2	12	0.889	547	591	17

Note:

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Consultant's Representative

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.				
Consultants	TEJUS CONSULTANTS				
Contractor	Sri.A G. Narayana Swamy.				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**		**Proposed Use**	CONCRETE	
Sample Location	Eshwara Condiments Side Road (Medows Appartment Opp)		**Date of Sampling**	11-06-2021	
			Date of Testing	12-06-2021	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	100
12.5	511	511	5.11	94.89	90-100
10.0	4536	5047	50.47	49.53	40-85
4.75	4432	9479	94.79	5.21	0-10
Pan	521	10000			

Remarks : Satisfactory / Not Satisfactory

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4.The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Authorised Signatory

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	Sri.A G. Narayana Swamy.	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	Eshwara Condiments Side Road (Medows Appartment Opp)	**Date of Sampling**	11-06-2021
		Date of Testing	12-06-2021

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	288	288	2.88	97.12	95 - 100
10.00 mm	4595	4883	48.83	51.17	25 - 55
4.75 mm	4320	9203	92.03	7.97	0 - 10
Pan	797	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Developments works to be under taken in Ward No.05 of BBMP around [illegible] Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Consultants	Tejus Consultants, Bangalore
Contractor	Sri.A G. Narayana Swamy.

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	M sand	**Proposed Use**	concrete
Sample Location	Eshwara Condiments Side Road (Medows Appartment Opp)	**Date of Sampling**	12-06-2021
		Date of Testing	12-06-2021

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	214	214	7.13	92.87	90 - 100
2.36 mm	331	545	18.17	81.83	75 - 100
1.18 mm	420	965	32.17	67.83	55 - 90
0.600 mm	490	1455	48.50	51.50	35 -59
0.300 mm	710	2165	72.17	27.83	8-30
0.150 mm	644	2809	93.63	6.37	0 - 10
Pan	191	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Consultants	Tejus Consultants, Bangalore
Contractor	Sri.A G. Narayana Swamy.

SIEVE ANALYSIS

Total Weight:	**3000** gms		
Type of Material	**M sand**	**Proposed Use**	concrete
Sample Location	Eshwara Condiments Side Road (Medows Appartment Opp)	**Date of Sampling**	12-06-2021
		Date of Testing	12-06-2021

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
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Remarks : Satisfactory / Not Satisfactory

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